

## CLAIMS

1. A cell disassembly device comprising:

a cell disassembly unit which disassembles a cell received from an ATM circuit interface, extracts data from payload, distributes data in plural time slots divided and multiplexed in time in frame period according to a sender, and sends out to an STM circuit interface; and

a buffer provided in each time slot,

wherein said cell disassembly unit stores the data distributed in each time slot temporarily in said buffer, and absorbs fluctuations of the cell.

2. The cell disassembly device according to claim 1, wherein said cell disassembly unit accumulates data after start of communication by writing data distributed in each time slot into said buffer, reads out the data from said buffer, parallel to writing, when the data accumulated amount in said buffer reaches a prescribed amount, and sends out the read data to said STM circuit interface.

3. The cell disassembly device according to claim 2, further comprising a setting unit which sets the prescribed amount or first prescribed time.

4. The cell disassembly device according to claim 3,  
further comprising a measuring unit which measures  
fluctuations of the cell, wherein said setting unit sets  
the value of the prescribed amount or first prescribed time  
5 on the basis of the result of measurement by said measuring  
unit.

5. The cell disassembly device according to claim 2,  
wherein the prescribed amount or first prescribed time is  
10 present independently in each buffer, and said cell  
disassembly unit determines the reading-start timing from  
said buffer independently in each buffer.

6. The cell disassembly device according to claim 2,  
15 wherein the prescribed amount or first prescribed time is  
present independently in each virtual path, and said cell  
disassembly unit determines the reading-start timing from  
said buffer independently in every one or two or more buffers  
corresponding to each virtual path.

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7. The cell disassembly device according to claim 6,  
wherein said cell disassembly unit starts reading action  
from all buffers corresponding to the virtual path when the  
data accumulated amount reaches the prescribed amount or  
25 passing the prescribed first time from start of communication,

in more than a specified number of buffers out of one or two or more buffers corresponding to a same virtual path.

8. The cell disassembly device according to claim 6,  
5 wherein said cell disassembly unit starts reading action from all buffers corresponding to the virtual path when the data accumulated amount reaches the prescribed amount or passing the prescribed first time from start of communication, in all buffers out of one or two or more buffers corresponding  
10 to a same virtual path.

9. The cell disassembly device according to claim 2,  
wherein said cell disassembly unit once stops, when an underflow occurs in the buffer, reading out from the buffer  
15 having the underflow, and resumes reading out when the data accumulated amount reaches again the prescribed amount or passing a second prescribed time after occurrence of underflow.

20 10. The cell disassembly device according to claim 1, wherein said cell disassembly unit accumulates data after start of communication by writing data distributed in each time slot into said buffer, reads out the data from said buffer, parallel to writing, after passing a first prescribed  
25 time, and sends out the read data to the STM circuit interface.

11. The cell disassembly device according to claim 10, further comprising a setting unit which sets the prescribed amount or first prescribed time.

5 12. The cell disassembly device according to claim 11, further comprising a measuring unit which measures fluctuations of the cell, wherein said setting unit sets the value of the prescribed amount or first prescribed time on the basis of the result of measurement by said measuring  
10 unit.

13. The cell disassembly device according to claim 10, wherein the prescribed amount or first prescribed time is present independently in each buffer, and said cell  
15 disassembly unit determines the reading-start timing from said buffer independently in each buffer.

14. The cell disassembly device according to claim 10, wherein the prescribed amount or first prescribed time is  
20 present independently in each virtual path, and said cell disassembly unit determines the reading-start timing from said buffer independently in every one or two or more buffers corresponding to each virtual path.

15. The cell disassembly device according to claim 14,  
wherein said cell disassembly unit starts reading action  
from all buffers corresponding to the virtual path when the  
data accumulated amount reaches the prescribed amount or  
5 passing the prescribed first time from start of communication,  
in more than a specified number of buffers out of one or  
two or more buffers corresponding to a same virtual path.

16. The cell disassembly device according to claim 14,  
10 wherein said cell disassembly unit starts reading action  
from all buffers corresponding to the virtual path when the  
data accumulated amount reaches the prescribed amount or  
passing the prescribed first time from start of communication,  
in all buffers out of one or two or more buffers corresponding  
15 to a same virtual path.

17. The cell disassembly device according to claim 10,  
wherein said cell disassembly unit once stops, when an  
underflow occurs in the buffer, reading out from the buffer  
20 having the underflow, and resumes reading out when the data  
accumulated amount reaches again the prescribed amount or  
passing a second prescribed time after occurrence of  
underflow.

18. A cell disassembly method for disassembling a cell received from an ATM circuit interface, extracts data from payload, distributes data in plural time slots divided and multiplexed in time in frame period according to a sender, and sends out to an STM circuit interface, the method comprising the step of:

storing the data distributed in each time slot temporarily in a buffer provided in each time slot, and absorbing fluctuations of the cell.

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19. A computer-readable recording medium recording a computer program for causing a computer to execute a cell disassembly method for disassembling a cell received from an ATM circuit interface, extracts data from payload, distributes data in plural time slots divided and multiplexed in time in frame period according to a sender, and sends out to an STM circuit interface, the method comprising the step of storing the data distributed in each time slot temporarily in a buffer provided in each time slot, and absorbing fluctuations of the cell.